

xirodur® B180 – cost-effective standard

FDA



xirodur® B180 cage,
stainless steel balls



xirodur® B180 cage,
glass balls



PA cage,
stainless steel balls



PA cage,
glass balls

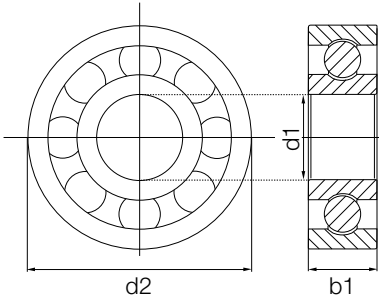
FDA



PE cage,
stainless steel balls



Also available with S180 races for visible parts
(xirodur® S180 and PA cage)



Order key

Type

Material

BB-623-B180-10-ES

Ball bearings

Dimensions according to DIN 625-1

Race material

Cage material

Ball material

- Options:
- Cage material**
- 10 = PA
- 30 = xirodur® B180
- 50 = PE
- Ball material**
- ES = Stainless steel
- GL = Glass
- Race material**
- xirodur® B180
- xirodur® S180



Imperial dimensions
available ► Page 1611

Technical data

Installation size	Radial load capacity		Max. speed [rpm]	Weight				
	stat. [N]	dyn. [N]		B180/ES [g]	B180/GL [g]	PA/ES [g]	PA/GL [g]	PE/ES [g]
623	25	34	4,500	0.37	0.31	0.40	0.32	0.39
633	33	45	4,000	0.83	0.64	–	–	–
684	10	11	4,600	0.26	0.20	–	–	–
694	12	14	4,000	0.42	0.35	–	–	–
604	30	32	3,600	0.65	0.45	–	–	–
624	33	45	4,000	0.79	0.60	0.85	0.62	0.83
634	40	40	3,700	1.50	1.00	–	–	–
685	12	14	4,000	0.45	0.37	–	–	–
695	29	30	3,500	0.73	0.53	–	–	–
605	32	33	3,500	0.96	0.77	–	–	–
625	40	40	3,700	1.42	0.96	1.55	1.01	1.52
635	41	43	3,200	2.59	1.76	–	–	–
686	29	30	3,500	0.76	0.57	–	–	–
696	29	30	3,500	1.05	0.85	–	–	–
606	50	53	3,300	1.89	1.25	–	–	–
626	60	62	3,200	2.06	1.60	2.44	1.69	2.35
636	80	94	2,200	3.96	2.71	–	–	–
687	32	34	3,200	0.80	0.61	–	–	–
697	39	41	3,000	1.47	1.05	–	–	–
607	41	43	3,200	1.97	1.52	–	–	–
627	80	94	2,400	3.85	2.60	–	–	–
688	39	41	3,000	1.17	0.76	1.19	0.75	–
698	60	62	3,200	2.34	1.52	–	–	–
608	80	94	2,400	3.76	2.51	3.79	2.54	3.73



Order example:
BB-623-B180-10-ES = Radial deep groove ball bearing with race material xirodur® B180, PA cage and stainless steel balls

Dimensions [mm]

Inner Ø d1	Outer Ø d2	Width b1	Cage/ball material combination					Part No.
			B180/ES	B180/GL	PA/ES	PA/GL	PE/ES	
3	10	4	●	●	●	●	●	BB-623-B180-10-ES
3	13	5	●	●	–	–	–	BB-633-B180-30-ES
4	9	4	●	●	–	–	–	BB-684-B180-30-ES
4	11	4	●	●	–	–	–	BB-694-B180-30-ES
4	12	4	●	●	–	–	–	BB-604-B180-30-ES
4	13	5	●	●	●	●	●	BB-624-B180-10-ES
4	16	5	●	●	–	–	–	BB-634-B180-30-ES
5	11	5	●	●	–	–	–	BB-685-B180-30-ES
5	13	4	●	●	–	–	–	BB-695-B180-30-ES
5	14	5	●	●	–	–	–	BB-605-B180-30-ES
5	16	5	●	●	●	●	●	BB-625-B180-10-ES
5	19	6	●	●	–	–	–	BB-635-B180-30-ES
6	13	5	●	●	–	–	–	BB-686-B180-30-ES
6	15	5	●	●	–	–	–	BB-696-B180-30-ES
6	17	6	●	●	–	–	–	BB-606-B180-30-ES
6	19	6	●	●	●	●	●	BB-626-B180-10-ES
6	22	7	●	●	–	–	–	BB-636-B180-30-ES
7	14	5	●	●	–	–	–	BB-687-B180-30-ES
7	17	5	●	●	–	–	–	BB-697-B180-30-ES
7	19	6	●	●	–	–	–	BB-607-B180-30-ES
7	22	7	●	●	–	–	–	BB-627-B180-30-ES
8	16	5	●	●	●	●	–	BB-688-B180-10-ES
8	19	6	●	●	–	–	–	BB-698-B180-30-ES
8	22	7	●	●	●	●	●	BB-608-B180-10-ES



Available
from stock



xirodur® B180 – cost-effective standard

Technical data

Installation size	Radial load capacity		Max. speed [rpm]	Weight				
	stat. [N]	dyn. [N]		B180/ES [g]	B180/GL [g]	PA/ES [g]	PA/GL [g]	PE/ES [g]
628	100	110	2,300	5.57	3.4	–	–	–
638	110	130	2,200	7.82	5.65	–	–	–
689	40	42	2,500	1.30	0.88	–	–	–
699	43	45	2,250	2.08	1.66	–	–	–
609	100	110	2,300	5.12	2.95	–	–	–
629	110	128	2,200	6.20	4.03	6.14	–	–
6800	43	45	2,250	1.56	1.07	–	–	–
6900	60	64	2,000	3.24	2.04	–	–	–
6000	110	130	2,200	5.98	3.83	5.95	3.78	5.98
6200	130	147	2,000	9.32	6.56	9.26	6.51	–
6300	140	150	1,800	13.83	11.02	13.75	–	–
6701	16	18	2,200	0.68	0.57	–	–	–
6801	60	64	2,000	1.82	1.40	–	–	–
6901	80	83	1,800	3.12	2.10	–	–	–
6001	130	147	2,000	6.36	4.18	6.78	4.34	6.66
6201	140	150	1,800	10.04	7.25	9.97	7.12	–
6301	160	220	1,600	15.69	12.90	–	–	–
6702	19	21	1,800	0.94	0.81	–	–	–
6802	80	83	1,800	2.46	1.46	–	–	–
6902	90	94	1,700	4.37	3.12	–	–	–
6002	140	150	1,800	8.68	5.92	8.72	6.23	8.60
6202	160	220	1,600	11.71	8.96	12.26	9.11	12.10
6302	250	320	1,400	10.56	3.95	10.49	–	–
6703	23	25	1,600	0.66	–	–	–	–
6803	90	94	1,700	2.83	1.65	–	–	–
6903	90	94	1,700	–	0.79	–	–	–
6003	160	220	1,600	10.23	7.45	10.72	7.61	10.55
6203	250	320	1,400	19.36	12.75	17.45	12.68	–
6303	280	360	1,200	21.68	13.60	–	–	–
6704	30	36	1,400	1.39	1.17	–	–	–
6804	100	120	1,500	5.19	3.59	–	–	–
6904	140	144	1,150	9.76	–	–	–	–
6004	250	320	1,400	20.81	12.93	19.46	12.89	19.44
6204	280	360	1,200	30.22	22.14	28.87	22.33	–
6304	380	400	1,000	43.85	31.05	–	–	–
6705	32	38	1,200	1.58	1.40	–	–	–
6805	140	144	1,150	6.48	4.16	–	–	–
6905	160	162	900	4.49	4.49	–	–	–
6005	280	360	1,200	24.14	16.07	22.93	15.67	22.58
6205	310	370	1,000	35.99	27.92	34.82	27.51	–
6305	480	520	850	61.12	45.48	–	–	–



Order example:

BB-628-B180-30-ES = Radial deep groove ball bearing with race material xirodur® B180, xirodur® B180 cage and stainless steel balls



Dimensions [mm]

Inner Ø d1	Outer Ø d2	Width b1	Cage/ball material combination					Part No.
			B180/ES	B180/GL	PA/ES	PA/GL	PE/ES	
8	24	8	●	●	–	–	–	BB-628-B180-30-
8	28	9	●	●	–	–	–	BB-638-B180-30-
9	17	5	●	●	–	–	–	BB-689-B180-30-
9	20	6	●	●	–	–	–	BB-699-B180-30-
9	24	7	●	●	–	–	–	BB-609-B180-30-
9	26	8	●	●	●	–	–	BB-629-B180- -
10	19	5	●	●	–	–	–	BB-6800-B180-30-
10	22	6	●	●	–	–	–	BB-6900-B180-30-
10	26	8	●	●	●	●	●	BB-6000-B180- -
10	30	9	●	●	●	●	–	BB-6200-B180- -
10	35	11	●	●	●	–	–	BB-6300-B180- -
12	18	4	●	●	–	–	–	BB-6701-B180-30-
12	21	5	●	●	–	–	–	BB-6801-B180-30-
12	24	6	●	●	–	–	–	BB-6901-B180-30-
12	28	8	●	●	●	●	●	BB-6001-B180- -
12	32	10	●	●	●	●	–	BB-6201-B180- -
12	37	12	●	●	–	–	–	BB-6301-B180-30-
15	21	4	●	●	–	–	–	BB-6702-B180-30-
15	24	5	●	●	–	–	–	BB-6802-B180-30-
15	28	7	●	●	–	–	–	BB-6902-B180-30-
15	32	9	●	●	●	●	●	BB-6002-B180- -
15	35	11	●	●	●	●	●	BB-6202-B180- -
15	42	13	●	●	●	–	–	BB-6302-B180- -
17	23	4	●	–	–	–	–	BB-6703-B180-30-ES
17	26	5	●	●	–	–	–	BB-6803-B180-30-
17	30	7	–	●	–	–	–	BB-6903-B180-30-GL
17	35	10	●	●	●	●	●	BB-6003-B180- -
17	40	12	●	●	●	●	–	BB-6203-B180- -
17	47	14	●	●	–	–	–	BB-6303-B180-30-
20	27	4	●	●	–	–	–	BB-6704-B180-30-
20	32	7	●	●	–	–	–	BB-6804-B180-30-
20	37	9	●	–	–	–	–	BB-6904-B180-30-ES
20	42	12	●	●	●	●	●	BB-6004-B180- -
20	47	14	●	●	●	●	–	BB-6204-B180- -
20	52	15	●	●	–	–	–	BB-6304-B180-30-
25	32	4	●	●	–	–	–	BB-6705-B180-30-
25	37	7	●	●	–	–	–	BB-6805-B180-30-
25	42	9	●	●	–	–	–	BB-6905-B180-30-
25	47	12	●	●	●	●	●	BB-6005-B180- -
25	52	15	●	●	●	●	–	BB-6205-B180- -
25	62	17	●	●	–	–	–	BB-6305-B180-30-



Available
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3D CAD files, prices and delivery time online ► www.igus.sk/xiros 889

Technical data

Installation size	Radial load capacity		Max. speed [rpm]	Weight				
	stat. [N]	dyn. [N]		B180/ES [g]	B180/GL [g]	PA/ES [g]	PA/GL [g]	PE/ES [g]
6706	34	41	1,000	1.76	1.59	–	–	–
6806	160	162	900	4.49	1.82	–	–	–
6906	190	193	850	13.15	10.13	–	–	–
16006	380	420	900	–	–	28.53	17.33	–
6006	380	400	1,000	–	–	34.15	22.70	–
6206	480	520	850	55.89	39.73	–	–	–
6306	520	660	750	27.00	8.52	–	–	–
6007	480	520	850	–	–	47.29	30.71	–
6008	520	660	750	–	–	54.84	38.73	–
6009	660	690	650	–	–	33.52	57.52	–
6010	740	780	600	–	–	82.33	54.00	–
6011	930	950	550	–	–	119.64	75.80	–
6012	990	1,050	500	–	–	126.66	80.54	–

Dimensions [mm]

Inner Ø d1	Outer Ø d2	Width b1	Cage/ball material combination					Part No.
			B180/ES	B180/GL	PA/ES	PA/GL	PE/ES	
30	37	4	●	●	–	–	–	BB-6706-B180-30-
30	42	7	●	●	–	–	–	BB-6806-B180-30-
30	47	9	●	●	–	–	–	BB-6906-B180-30-
30	55	9	–	–	●	●	–	BB-16006-B180-10-
30	55	13	–	–	●	●	–	BB-6006-B180-10-
30	62	16	●	●	–	–	–	BB-6206-B180-30-
30	72	19	●	●	–	–	–	BB-6306-B180-30-
35	62	14	–	–	●	●	–	BB-6007-B180-10-
40	68	15	–	–	●	●	–	BB-6008-B180-10-
45	75	16	–	–	●	●	–	BB-6009-B180-10-
50	80	16	–	–	●	●	–	BB-6010-B180-10-
55	90	18	–	–	●	●	–	BB-6011-B180-10-
60	95	18	–	–	●	●	–	BB-6012-B180-10-



Order example:
BB-6706-B180-30-ES = Thin ring bearing with race material xirodur® B180, xirodur® B180 cage and stainless steel balls



Available
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3D CAD files, prices and delivery time online ► www.igus.sk/xiros 891



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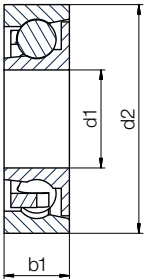
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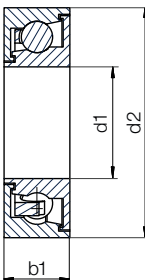
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PA cage, with shield on one side stainless steel or glass balls



B180 cage, with labyrinth seal, stainless steel balls



Technical data

Installation size	Radial load capacity		Max. speed [rpm]	Weight	
	stat. [N]	dyn. [N]		stainless steel [g]	glass [g]
623	10	25	4,500	0.41	0.33
626	41	43	3,200	2.56	1.71
608	80	94	2,200	3.93	2.67
6000	110	130	2,200	6.21	4.15
6001	138	147	2,000	7.09	4.61
6202	142	155	1,700	12.73	9.63
6003	160	220	1,600	11.12	8.03
6004	250	320	1,400	20.20	13.60
6005	280	360	1,200	23.89	16.51

With labyrinth seal

Installation size	Radial load capacity		Max. speed [rpm]	Weight	
	stat. [N]	dyn. [N]		stainless steel [g]	glass [g]
6003	160	220	1,600	11.02	8.27



Order example:
BB-623-B180-10-ES-C = Radial deep groove ball bearing with race material xirodur® B180, PA cage, stainless steel balls and shield

 Order key

Type

Material

BB-623-B180-10-ES-C

Options:

Cage material

10 = PA

30 = xirodur® B180

Ball material

ES = Stainless steel

GL = Glass

Shield or labyrinth seal

C = One-sided shield

LCC =

Labyrinth seal

Ball bearings

Dimensions according to DIN 625-1

Race material

Cage material

Ball material

With shield

Dimensions [mm]

Inner Ø d1	Outer Ø d2	Width b1	Cage/ball material combination		Part No.
			PA/ES	PA/GL	
3	10	4	●	●	BB-623-B180-10-ES-C
6	19	6	●	●	BB-626-B180-10-ES-C
8	22	7	●	●	BB-608-B180-10-ES-C
10	26	8	●	●	BB-6000-B180-10-ES-C
12	28	8	●	●	BB-6001-B180-10-ES-C
15	35	11	●	●	BB-6202-B180-10-ES-C
17	35	10	●	●	BB-6003-B180-10-ES-C
20	42	12	●	●	BB-6004-B180-10-ES-C
25	47	12	●	●	BB-6005-B180-10-ES-C

Dimensions [mm]

Inner Ø d1	Outer Ø d2	Width b1	Cage/ball material combination		Part No.
			B180/ES	B180/GL	
17	35	10	●	●	BB-6003-B180-30-LCC



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